

EXHIBIT A

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Strike 3 Holdings, LLC

UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA

STRIKE 3 HOLDINGS, LLC,

Plaintiff,

vs.

JOHN DOE subscriber assigned IP address
45.30.93.48,

Defendant.

Case No.: 5:21-cv-02487-VKD

**DECLARATION OF DAVID
WILLIAMSON IN SUPPORT OF
PLAINTIFF'S *EX-PARTE* APPLICATION
FOR LEAVE TO SERVE A THIRD-
PARTY SUBPOENA PRIOR TO A RULE
26(f) CONFERENCE**

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**DECLARATION OF DAVID WILLIAMSON IN SUPPORT OF PLAINTIFF'S
MOTION FOR LEAVE TO TAKE DISCOVERY PRIOR TO A RULE 26(f)
CONFERENCE**

1. My name is David Williamson.

2. I am over the age of 18 and competent to make this declaration. The facts stated in this declaration are based upon my personal knowledge and, if called and sworn as a witness, I can and competently will testify to all matters contained herein.

Education and Career

3. Between 1983 to 1986, I attended Bispham Technical College located in Bispham, Blackpool, United Kingdom, where I studied computer science.

4. Since completing my studies at Bispham Technical College, I have acquired over 34 years of experience in the Information Technology industry.

5. My experience ranges from working as a service engineer, a hardware engineer, a developer, a team leader, an IT consultant, an eInfrastructure manager, an Internet consultant, Infrastructure Practice Manager, a Security & Networking Specialty Manager, and a Software Consulting Practice Manager. I was also a UK board member for Sun Microsystems Professional Services Division.

6. I have worked in many industries, which significantly include the UK Department of Defense (British Aerospace), Sun Microsystems, and AXA Insurance.

7. As a result of my experience, I have significant technology skills that cross the Microsoft & Unix / Linux platforms. These skills are primarily in the areas of software development, security, and networking.

8. I am highly competent in networking technologies and information security, and adept at programming in various languages including Java, Javascript, PHP, C, and Assembler.

9. I also possess significant skills in Databases, Cloud Computing, and other Web technologies.

10. I am currently self employed as an Information Systems and Management Consultant. In this role, I work with clients to help them tackle the challenges involved with

1 scaling their Information Technology Applications. The process involves using Agile
2 methodologies to help companies design and re-factor their applications to use the latest
3 technology.

4 **Strike 3 Holdings, LLC Background**

5 11. As an Information Systems and Management Consultant, I am employed as an
6 independent contractor by Strike 3 Holdings (“Strike 3” or “Plaintiff”), a Delaware limited
7 liability company located at 2140 S. Dupont Hwy, Camden, DE.

8 12. I have been working with Strike 3 since its inception. I undertake the role of
9 Chief Technology Officer (CTO). Because of the nature of my role with the company, I am
10 generally familiar with all aspects of the company, and with full knowledge of its Information
11 Technology Systems.

12 13. Strike 3 owns the intellectual property to the *Blacked*, *Blacked Raw*, *Tushy*, and
13 *Vixen* adult brands, including the copyrights to each of the motion pictures distributed through
14 *Blacked*, *Blacked Raw*, *Tushy* and *Vixen* and the trademarks to each of the brand names and
15 logos. Strike 3 is owned entirely by General Media Systems, LLC and has existed since 2015.
16 I also undertake the role of Vice President of Technology for General Media Systems, LLC.

17 14. Our company has approximately 15 million visitors to our websites per month
18 and a loyal following.

19 15. Our company’s philosophies are important.

20 16. We always strive to pay artists and models an amount above that being paid by
21 other companies. Indeed, we are known for paying our performers the highest rates ever
22 recorded in the industry. Empowering the artists -- and especially the women we work with --
23 is at the core of our company’s philosophy.

24 17. We focus on delivering to our subscribers and fans superior quality adult films
25 and a wonderful customer experience available for a monthly subscription at a fair price. When
26 Strike 3 first began offering this service, conventional wisdom held that it was destined to fail;
27 that people would refuse to pay extra to support the production of high quality adult content
28

1 they enjoy when lesser quality films are available for free. Now, we have a substantial and loyal
2 customer base that recognize the value of paying a fair price to support the artists that provide
3 the works they enjoy.

4 18. We provide jobs for nearly 100 people worldwide. We provide good benefits
5 including health care coverage and have an extremely positive company culture. Our
6 employees include producers, production managers, video editors, marketing specialists,
7 accountants, stylists, content managers, and a full team of highly skilled software developers,
8 system administrators, and a quality assurance department.

9 19. Our movies are known for having some of the highest production budgets of any
10 in the industry. We invest in and utilize state of the art cinematic equipment. We film using
11 Hollywood industry standards. And, as our subscriber base grows, we always seek to find ways
12 to invest in value for our customers.

13 20. Because of this, we have a subscriber base that is one of the largest of any adult
14 site in the world.

15 21. We are also currently the number one seller of adult DVDs in the United States.

16 22. Our content is licensed throughout the world, which includes most major cable
17 networks.

18 23. Our success has not gone unnoticed. Indeed, we are very proud that our unique
19 cinematic films have won many awards. Some of them include:

- 20 a. Best New Studio (XBIZ, 2017)
- 21 b. Studio of the Year (XBIZ, 2018)
- 22 c. Best Cinematography (AVN, 2016)
- 23 d. Director of the Year (AVN, 2016-2018 ; XBIZ, 2017-2018)
- 24 e. Best Director – (XRCO, 2016-2017)
- 25 f. Best Membership Website (AVN, 2016-2017)
- 26 g. Adult Site of the Year – (XBIZ, 2015-2017)
- 27 h. Best marketing campaign – company image (AVN, 2016-2017)

1 i. Marketing Campaign of the Year (XBIZ, 2018)

2 j. Greg Lansky - Lifetime Achievement Award (Nightmoves)

3 k. Vignette Series of the Year (XBIZ, 2018)

4 24. We also are routinely featured in mainstream media. Forbes,¹ The Daily Beast,²
5 CBC Radio,³ Rolling Stone,⁴ AdAge,⁵ and Jezebel⁶ have all published substantial profiles on us.

6 25. We are proud of our impact on the industry. We have raised the bar in the
7 industry - leading more adult studios to invest in better content and higher pay for performers.
8 That is a testament to the entire team, the company we have built, and the movies we create.

9 26. Unfortunately, piracy is a major threat to our company. We can compete in the
10 industry, but we cannot compete when our content is stolen.

11 27. We have discovered that when we put videos online for paid members to view, it
12 is often less than a day before our movies are illegally available to be downloaded on torrent
13 websites. We have attempted to identify the initial seeders of the pirated content. However,
14 due to our significant customer base, it is virtually impossible to 100% identify the actual
15 individual who initially distributes our content via the torrent network. We do regularly scan
16 our records for people who appear to be abusing our service, and take action to prevent further
17 abuse.

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20 ¹ "How One Pornographer is Trying to Elevate Porn to Art," *Forbes*, July 20, 2017
21 <https://www.forbes.com/sites/susannahbreslin/2017/07/20/pornographer-greg-lansky-interview/#2301d3ae6593>

22 ² "Meet the Man Making Porn Great Again," *The Daily Beast*, February 18, 2017
<http://www.thedailybeast.com/meet-the-man-making-porn-great-again>

23 ³ "Porn-o-nomics: How one director is making a fortune by defying conventional wisdom," *CBC Radio*,
24 February 24, 2017 <http://www.cbc.ca/radio/day6/episode-326-sanctuary-cities-la-la-land-vs-jazz-hollywood-in-china-porn-o-nomics-and-more-1.3994160/porn-o-nomics-how-one-director-is-making-a-fortune-by-defying-conventional-wisdom-1.3994167>

25 ⁴ "Versace, Champagne and Gold: Meet the Director Turning Porn Into High Art." *RollingStone*, April
26 15, 2018 <https://www.rollingstone.com/culture/culture-features/versace-champagne-and-gold-meet-the-director-turning-porn-into-high-art-629908/>

27 ⁵ "Kanye West's Favorite Pornographer is a Master of SFW Marketing," *AdAge*, August 17, 2018
<https://adage.com/article/cmo-strategy/sfw-pornographer/314604>

28 ⁶ "The One Percent Fantasies of Greg Lansky's Vixen" *Jezebel*, January 9, 2019
<https://jezebel.com/jerking-off-to-capitalism-the-1-percent-fantasies-of-g-1829976586>

1 28. The issue of pirated content is a significant one; the Global Innovation Policy
2 Center released a report⁷ in June 2019, and found that digital video piracy conservatively causes
3 lost domestic revenues of at least \$29.2 billion and as much as \$71.0 billion. It also found that
4 it results in losses to the U.S. economy of between 230,000 and 560,000 jobs and between \$47.5
5 billion and \$115.3 billion in reduced gross domestic product (GDP) each year. We certainly
6 feel this pain, as do our paying customers, who are cheated out of access to even more films that
7 our company does not have the resources to make when pirates freeload off the system instead
8 of contributing their fair share to pay for the works they enjoy.

9 29. We put a tremendous amount of time, effort and creative energy into producing
10 and distributing valuable content for our paid customers. It crushes us to see it being made
11 available for free in just minutes.

12 30. Our movies are typically among the most pirated television shows and movies on
13 major torrent websites.

14 31. We send on average 50,000 Digital Millennium Copyright Act notices a month
15 but it does virtually nothing to stop the rampant copyright infringement.

16 32. The most, if not the only, effective way to stop the piracy of our movies on
17 BitTorrent networks is to file lawsuits like this one.

18 33. We are mindful of the nature of the works at issue in this litigation. Our goal is
19 not to embarrass anyone or force anyone to settle unwillingly, especially anyone that is
20 innocent. We are proud of the films we make. We do not want anyone to be humiliated by
21 them.

22 34. Because of this, our company and our legal team strives to only file strong cases
23 against extreme infringers. Each lawsuit seeks to stop only those infringers who engage not
24 only in illegal downloading, but also in large scale unauthorized distribution of our content.

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27 ⁷ “IMPACTS OF DIGITAL VIDEO PIRACY ON THE U.S. ECONOMY” <https://www.theglobalipcenter.com/wp-content/uploads/2019/06/Digital-Video-Piracy.pdf>

1 35. We also do not seek settlements unless initiated by the defendant or their
2 counsel. We do not send demand letters.

3 36. We are careful not to proceed with a case against a defendant unless we feel we
4 have a strong case and a good faith basis for doing so. We will not pursue defendants that
5 provide substantiated exculpatory evidence. Nor will we pursue defendants that have proven
6 hardships. Our clear objective is to be mindful and reasonable with each case.

7 37. We are a respected entertainment company that makes nearly all of its revenue
8 from sales of subscriptions, DVDs, and licenses. Our goal is to deter piracy and redirect the
9 infringement back into legitimate sales. Proceeds we receive from settlements go back into
10 making our company whole.

11 38. We believe a consumer's choice of what content to enjoy, whether it be adult
12 entertainment or otherwise, is a personal one to that consumer. Therefore, it is our policy to
13 keep confidential the identity of not only our subscribers, but even those we are pursuing for
14 copyright infringement. We typically only reveal a defendant's identity if the defendant does
15 not contact Strike 3 to participate in the request to the Court to permit them to proceed
16 anonymously, or if the Court in a particular action does not allow a defendant to proceed
17 anonymously.

18 39. Our copyrights are the foundation of our livelihood. Our copyrights enable us to
19 open our office doors each day, pay employees, make a difference in our community, and create
20 motion pictures that raise the industry standard. We have to protect them.

21 **Strike 3 Holdings, LLC's Infringement Detection System**

22 40. I oversaw the design, development, and overall creation of the infringement
23 detection system called VXN Scan ("VXN") which Strike 3 both owns and uses to identify the
24 IP addresses used by individuals infringing Plaintiff's movies via the BitTorrent protocol.

25 41. It took approximately six months to develop VXN.

26 42. As explained below, VXN has several components and processes.
27
28

The Torrent Collector/Scraper

43. The first component of VXN is the Torrent Collector.

44. Torrent websites host .torrent files or list magnet links referring to .torrent files, which contain torrent metadata. In order to download content through BitTorrent, a user will first download a BitTorrent client (*i.e.*, software that enables the BitTorrent protocol work), and then will search for and acquire .torrent files from torrent websites. The BitTorrent client reads the .torrent file's metadata, specifically its "Info Hash,"⁸ and uses that information to download pieces of the desired computer file that correlate to the .torrent file previously acquired.

45. The Torrent Collector is software that conducts lexical searches of Plaintiff's titles within well-known torrent websites.

46. The Torrent Collector is serviced at Amazon Elastic Compute Cloud ("Amazon EC2"). Amazon EC2 is a web service that provides secure, resizable compute capacity in the cloud.⁹

The Downloader

47. The second component of VXN is a software called Downloader. After the Torrent Collector's lexical search yields a match (*i.e.*, it has located a .torrent file which establishes that the correlating targeted computer file contains the title of one of Plaintiff's works), the Downloader subsequently downloads the .torrent file and a full copy of the targeted computer file from the whole BitTorrent swarm. To be clear, the Downloader does not obtain a full copy from a single infringer.

48. The targeted computer file is downloaded for human audiovisual verification purposes only. Indeed, downloading the entire targeted computer file is necessary so that Strike 3 can confirm that the targeted computer file, related to a specific .torrent file, is in fact an

⁸ The "Info Hash" is the data that the BitTorrent protocol uses to identify and locate the other pieces of the desired file across the BitTorrent network. To be clear, the "Info Hash" is not the hash value of the complete file nor its correlating .torrent file. Instead, it is a unique identifier contained in the metadata of the .torrent file that provides a "map" so that those pieces can be collected and re-assembled into a complete file (*i.e.*, a playable movie) by a BitTorrent client.

⁹ See <https://aws.amazon.com/ec2/>

1 infringing copy of a copyrighted work it owns.

2 49. It is impossible for the Downloader to re-distribute or upload any of the retrieved
3 data, since, as written, the program does not contain such a function. To be clear, the
4 downloader will never upload data to other computer systems in the BitTorrent network.

5 50. The Downloader then stores the .torrent file and a full copy of the targeted
6 computer file directly onto a cloud platform account provided by Amazon Web Services
7 (“AWS”).

8 51. The Downloader is also serviced at Amazon EC2.

9
The Proprietary Client

10 52. The third component of VXN is a proprietary BitTorrent client (“Proprietary
11 Client”).

12 53. After the Downloader downloads the .torrent file and targeted computer file as
13 described above, the Proprietary Client connects to peers within the swarm associated with that
14 infringing computer file. The Proprietary Client connects to these peers using a TCP/IP
15 connection. This connection cannot be spoofed.

16 54. Once the connection is established, the Proprietary Client begins the process of
17 downloading a piece or multiple pieces of the infringing computer file from other computers
18 connected to the Internet through IP addresses, which are offering pieces of the infringing
19 computer file for download (i.e., “peers” in the BitTorrent “swarm”). The Proprietary Client
20 accomplishes this by using the Info Hash value in the metadata of the .torrent file, which has
21 already been confirmed to correlate with a digital media file that infringes upon one of Strike
22 3’s copyrighted works. The BitTorrent protocol ensures that, because the Proprietary Client
23 requests file pieces based on this specific Info Hash value, it only receives pieces of the related
24 digital media file. In short, it repeatedly downloads data pieces from peers within the BitTorrent
25 network which are distributing Plaintiff’s movies.

26 55. In this way, the Proprietary Client emulates the behavior of a standard BitTorrent
27 client. However, there are two ways in which the Proprietary Client differs from a standard
28

1 BitTorrent client. The first is that the Proprietary Client is *incapable* of distributing the
2 infringing computer files. Thus, it is only able to download data from peers in a swarm and is
3 unable to upload any data to the peers in a swarm. The second exception is that the Proprietary
4 Client is disabled from storing any of the content obtained from the transaction and the
5 Proprietary Client does not itself record evidence of infringement.

6 56. The Proprietary Client operates on an independent physical server which is
7 located in a professional data center in Florida.

8
9 **PCAP Recorder / Capture Card**

10 57. The fourth component of VXN is the PCAP Recorder, which uses a physical
11 PCAP Capture Card.

12 58. Data sent through the Internet is delivered in the form of “packets” of
13 information. PCAP stands for “Packet Capture.” A PCAP is a computer file containing
14 captured or recorded data transmitted between network devices.

15 59. In this case, Plaintiff sought to record numerous infringing BitTorrent computer
16 transactions in the form of PCAPs. The PCAPs evidence particular IP addresses connecting to
17 the Proprietary Client and sending pieces of a computer file (which contains an infringing copy
18 of Plaintiff’s works) to the Proprietary Client.

19 60. Strike 3’s need to record and secure PCAPs is logical since PCAPs contain
20 specific BitTorrent transaction details of evidentiary value.

21 61. Indeed, a PCAP contains the Internet Protocol (IP) Addresses used in the
22 network transaction, the date and time of the network transaction, the port number¹⁰ used to
23 accomplish each network transaction, and the BitTorrent client used to accomplish the network
24 transaction. All of the above can be useful in identifying an infringer.

25 62. A PCAP also identifies the Info Hash value that was used to obtain the transacted
26

27 ¹⁰ A port is a communication endpoint. Ports are identified for each protocol and address combination
28 by the port number.

1 piece. This information identifies the data that was shared in the recorded transaction as a
2 constituent part of a specific digital media file, which, as described above, has been confirmed
3 to be a file that infringes upon one of Strike 3's copyrighted works.

4 63. In order to record the PCAPs in real-time for all BitTorrent transactions which
5 the Proprietary Client is involved in, VXN uses a Capture Card called Link™ NT40A01
6 SmartNIC. This is a network capture card that was developed and manufactured by
7 Napatech™.

8 64. Napatech is the leading provider of reconfigurable computing platforms.¹¹ It
9 develops and markets the world's most advanced programmable network adapters for network
10 traffic analysis and application off-loading.¹² Napatech's "family of SmartNICs enables
11 government and military personnel to capture all the data running through their networks[.]"¹³

12 65. Within VXN, the Capture Card is connected to the Proprietary Client's network
13 connection via a passive network tap. A passive network tap allows the Capture Card to record
14 perfect copies of all traffic without actively interacting with any other components within the
15 network (i.e., the Proprietary Client). In this manner, the Capture Card retrieves an identical
16 copy of each and every single network packet which is sent¹⁴ and received by the Proprietary
17 Client.

18 66. The PCAP Recorder receives that data from the Capture Card and streams the
19 PCAP files directly onto a cloud platform account provided by AWS. More specifically, the
20 cloud platform is known as Amazon Simple Storage Service ("Amazon S3"). Within this
21 Amazon S3 account, Plaintiff has enabled the object lock "legal hold" feature. This feature
22 "prevents an object version from being overwritten or deleted [...] [which] remains in effect
23

24
25 ¹¹ See <https://marketing.napatech.com/acton/attachment/14951/f-cce2aadf-5242-49dd-b515-31bd48077066/1/-/-/-/Fort%20Huachuca%20Press%20Release.pdf>

26 ¹² See <http://www.networkallies.com/partners/napatech>

27 ¹³ See <https://finance.yahoo.com/news/napatechs-family-smartnics-helps-state-130700070.html>

28 ¹⁴ The Proprietary Client does not send any data to BitTorrent peers. But even if it did, the Capture Card would record such transactions.

1 until removed.”¹⁵ Thus, this ensures that the files cannot be modified or deleted.

2 67. Plaintiff’s “legal hold” feature is currently set for three years. Therefore, the
3 PCAPs cannot be modified or deleted for three years from the date and time the PCAP was first
4 streamed onto the Amazon s3 cloud.

5 68. To be clear, no PCAP data is stored locally on the Capture Card. Rather, the
6 PCAP data is streamed in real time and stored directly onto Amazon S3.

7 69. The Capture Card is synchronized with a time server using the Global
8 Positioning System (GPS). This ensures that the dates and times within the PCAPs are
9 accurate. Each recorded transaction is recorded in milliseconds (thousandths of a second).

10 70. The independent physical server housing the Capture Card and PCAP Recorder
11 is also located at a professional data center in Florida.

12 **The PCAP Stamper**

13 71. The fifth component of VXN is the PCAP Stamper software.

14 72. Every 24 hours the PCAP Stamper¹⁶ sends an index of every PCAP file VXN has
15 *ever* recorded within the last 24 hours to a 3rd party provider called DigiStamp, Inc.¹⁷
16 DigiStamp, Inc. then signs the index with a qualified timestamp. This ensures that the PCAPs
17 existed on the date and time listed in the timestamp, and that it has not been modified as of the
18 date and time listed in the timestamp.

19 73. The PCAP Stamper is located on Amazon EC2.

20
21
22 ¹⁵ See <https://docs.aws.amazon.com/AmazonS3/latest/dev/object-lock-overview.html#object-lock-legal-holds>

23 ¹⁶ Though we termed this software the “PCAP Stamper,” this term is not descriptive since it is DigiStamp, Inc. that actually signs the PCAP index with a qualified timestamp.

24 ¹⁷ DigiStamp, Inc. provides “tools to prove the authenticity and integrity of electronic records. By the end
25 of 2003, DigiStamp had created more than 1 million timestamps for customers. Not a single DigiStamp timestamp
26 has ever been successfully challenged. In 2005, [DigiStamp] commissioned and completed an external audit so that
27 [its] timestamp meets the highest standards of strong legal evidence for authenticating computer data.” Further
28 “state and federal agencies, as well as foreign governments, have sought [DigiStamp’s] advice and our products.
From the Supreme Court of Ohio to the Department of Defense to the federal governments of Mexico and
Australia, [DigiStamp] [is] recognized as reliable experts who offer sound thinking as well as a fine product.” See
<https://www.digistamp.com/about-us/aboutus>

The PCAP Analyzer

74. The sixth component of VXN is the PCAP Analyzer. The PCAP Analyzer is software that: (a) retrieves stored PCAP files from Amazon S3; (b) extracts infringing transaction data from each PCAP; (c) verifies that each retrieved data piece is a part of the .torrent related file (and therefore distributing Plaintiff's copyrighted content) by using cryptographic hashes; and (d) organizes and summarizes the extracted infringing transaction data in a tabular format.

75. Each line item within the PCAP Analyzer's tabular output *always* references an existing PCAP file. In other words, there is a PCAP recording for every infringing transaction listed in the PCAP Analyzer's tabular output. Thus, Plaintiff is always able to provide the original recording (the PCAPs) for each transaction listed in the tabular output. The tabular format is merely a summary of the PCAP data and is created for better human readability.

76. The PCAP Analyzer is connected to Maxmind® GeoIP2 Precision Services geolocation database.¹⁸

77. Maxmind is "an industry-leading provider of IP intelligence and online fraud detection tools."¹⁹ "Over 5,000 companies use GeoIP data to locate their Internet visitors and show them relevant content and ads, perform analytics, enforce digital rights, and efficiently route Internet traffic."²⁰ Maxmind is not "software" or technology, but instead it is a database. Maxmind compiles information it receives from Internet Service Providers (ISPs) containing the city and state locations of the users of the ISPs and their respective IP addresses. Maxmind maintains and updates this list weekly and sells access to it.

78. VXN connects with the Maxmind database to determine both the Internet Service Provider that assigned a particular IP address as well as the city and state the IP Address traces to. The PCAP Analyzer adds this information to the tabular output.

79. The PCAP Analyzer runs continuously in real-time.

¹⁸ See <https://www.maxmind.com/en/geoip2-precision-services>

¹⁹ See <https://www.maxmind.com/en/company>

²⁰ *Id.*

1 80. The PCAP Analyzer software is located on Amazon EC2.

2 81. The PCAP Analyzer fulfills the same basic function as the well-known software
3 called Wireshark and follows the same standards.

4 **PURSUANT TO 28 U.S.C. § 1746**, I hereby declare under penalty of perjury under the
5 laws of the United States of America that the foregoing is true and correct.

6 Executed this 3rd day of March, 2021.

7 By: _____

DocuSigned by:

David Williamson

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8 **DAVID WILLIAMSON**
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EXHIBIT B

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**DECLARATION OF PATRICK PAIGE IN
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DECLARATION OF PATRICK PAIGE IN SUPPORT OF PLAINTIFF'S
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I, Patrick Paige, do hereby state and declare as follows:

1. My name is Patrick Paige. I am over the age of 18 and I am otherwise competent to make this declaration.

2. This declaration is based on my personal knowledge and, if called upon to do so, I will testify that the facts stated herein are true and accurate.

3. I am a Managing Member at Computer Forensics, LLC a Florida based expert computer forensics company.

4. For approximately 20 years, I have worked in the computer forensics industry.

5. During this time, I have conducted forensic computer examinations for:

- a. Broward County Sheriff's Office (BSO);
- b. Federal Bureau of Investigation (FBI);
- c. U.S. Customs and Border Protection (CBP);
- d. Florida Department of Law Enforcement (FDLE);
- e. U.S. Secret Service;
- f. Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF); and
- g. Various municipalities in the jurisdiction of Palm Beach County.

6. I have taught over 375 hours of courses in computer forensics ranging from beginner to advanced levels.

7. I have had students in my courses from various government branches, including: (a) sheriff's offices; (b) agents from the Federal Bureau of Investigation; (c) agents from the Bureau of Alcohol, Tobacco, Firearms and

1 Explosives; (d) agents from the Central Intelligence Agency, and (e) individuals
2 from other branches of government and the private sector.

3 8. I have been called to testify as a fact and expert witness on numerous
4 occasions in the field of computer forensics in both trial-level and appellate
5 proceedings before state, federal, and military courts in California, Florida,
6 Indiana, New Jersey, New York, and Pennsylvania.

7 9. No court has ever refused to accept my testimony on the basis that I
8 was not an expert in computer forensics.

9 10. I have worked with a program called Wireshark since 2004.¹ I first
10 began using this software at the Palm Beach County Sheriff's Office within the
11 Computer Crimes Unit. In that role, I used Wireshark to conduct online
12 investigations where individuals transmitted contraband images to me during
13 online chat sessions. In private practice, I have also used Wireshark to monitor
14 network traffic while investigating network intrusion cases. Later in my career I
15 also used this software to examine PCAPs associated with BitTorrent transactions.

16 11. In 2019, I obtained my certification as a Wireshark Certified Network
17 Analyst.

18 12. I was retained by Strike 3 Holdings, LLC ("Strike 3") to individually
19 analyze and retain forensic evidence captured by its infringement detection
20 system.

21 13. In this case, Plaintiff claims that its infringement detection system,
22 VXN Scan, recorded numerous BitTorrent computer transactions between the
23 system and IP address 45.30.93.48 in the form of PCAPs.

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26 ¹ Initially, Wireshark was named "Ethereal" when it was released in 1998. However, it
27 was renamed "Wireshark" in 2006.

1 14. PCAP stands for “Packet Capture.” A PCAP is a computer file
2 containing captured or recorded data transmitted between network devices. In
3 short, it is a recording of network traffic.

4 15. Here, the PCAPs would evidence particular IP addresses connecting
5 to VXN Scan and sending pieces of a computer file (which allegedly contains a
6 piece of an infringing copy of Plaintiff’s works) to VXN Scan. The PCAP
7 contains a record data concerning that transaction, including, but not limited to,
8 the Internet Protocol (IP) Addresses used in the network transaction, the date and
9 time of the network transaction, the port number used to accomplish each network
10 transaction, and the Info Hash value that the VXN Scan used as the subject of its
11 request for data.

12 16. For this case, I received a PCAP from Strike 3 containing
13 information relating to a transaction initiated on 03/24/2021 01:15:37 UTC
14 involving IP address 45.30.93.48.

15 17. I used Wireshark to view the contents of this PCAP.

16 18. In reviewing the PCAP, I was able to confirm that the PCAP is
17 evidence of a recorded transaction with IP address 45.30.93.48 initiated at
18 03/24/2021 01:15:37 UTC. More specifically, the PCAP evidence shows that
19 within that transaction, IP address 45.30.93.48 uploaded a piece or pieces of a file
20 corresponding to hash value
21 205D3A9661157A480B0F42DA64F0505A35F0A479 to VXN Scan.

22 19. To be clear, the hash value
23 205D3A9661157A480B0F42DA64F0505A35F0A479 recorded in the PCAP is
24 the “Info Hash.” The “Info Hash” is *not* the hash value of the movie file itself.

25 20. A hash value is an alpha-numeric value of a fixed length that
26 uniquely identifies data. Hash values are not arbitrarily assigned to data merely
27 for identification purposes, but rather are the product of a cryptographic algorithm
28

1 applied to the data itself. As such, while two identical sets of data will produce
2 the same cryptographic hash value, any change to the underlying data – no matter
3 how small – will change the cryptographic hash value that correlates to it.

4 21. The entire file being shared has a hash value (*i.e.*, the “File Hash”).
5 Files are shared on BitTorrent by breaking them down into smaller pieces. To
6 find and re-assemble these pieces, *i.e.*, to download the file using BitTorrent, a
7 user must obtain a “.torrent” file for the specific file that has been broken down
8 into pieces. Each “.torrent” file contains important metadata with respect to the
9 pieces of the file. When this data is put into the cryptographic algorithm, it results
10 in a hash value called the “Info Hash.”

11 22. The “Info Hash” is the data that the BitTorrent protocol uses to
12 identify and locate the other pieces of the desired file (in this case, the desired file
13 is the respective file for the infringing motion pictures that are the subject of this
14 action) across the BitTorrent network.

15 23. Using the Info Hash, a user may collect all the pieces of the desired
16 file (either from the user that shared the original piece or from other members of
17 the BitTorrent swarm), to create the playable movie file.

18 24. Once the user has the playable movie file, the user could: (1)
19 calculate the movie’s File Hash value, and (2) visually compare the playable
20 movie file to its copyrighted work to determine whether they are identical,
21 strikingly similar, or substantially similar.

22 25. Any change in the underlying movie file (including converting the
23 file to a different format, changing the resolution, etc.) will result in the algorithm
24 calculating a different File Hash value. As such, unless two files have the exact
25 same File Hash, visual comparison of two files is the best method by which to
26 determine whether one movie file is a visual copy of another.

26. Based on the foregoing, my experience in working with peer-to-peer networks and BitTorrent protocols, and my review of the PCAP related to Work No. 1 in Exhibit A of the Complaint, I can conclude that the PCAP provided to me in this matter is evidence which supports the allegation that IP address 45.30.93.48 engaged in a transaction that included the transmission of a piece or pieces of a file, in response to a request for data relating to Info Hash value 205D3A9661157A480B0F42DA64F0505A35F0A479, in a transaction initiated at 03/24/2021 01:15:37 UTC.

27. I have read David Williamson's declaration which describes the design and operation of VXN Scan which recorded the PCAP I examined. Based on his declaration, I believe the PCAP I reviewed is a true reflection of a transaction that took place and that the PCAPs which Strike 3 stores are unalterable.

28. Based on my experience in similar cases, Defendant's ISP AT&T Universe is the only entity that can correlate the IP address to its subscriber and identify Defendant as the person assigned the IP address 45.30.93.48 during the time of the alleged infringement. Indeed, a subpoena to an ISP is consistently used by civil plaintiffs and law enforcement to identify a subscriber of an IP address.

DECLARATION

PURSUANT TO 28 U.S.C. § 1746, I hereby declare under penalty of perjury under the laws of the State of California and the United States of America that the foregoing is true and correct.

Executed on this 27th day of March 2021.

PATRICK PAIGE

By: 

EXHIBIT C

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Attorney for Plaintiff
Strike 3 Holdings, LLC

UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA

STRIKE 3 HOLDINGS, LLC,

Plaintiff,

vs.

JOHN DOE subscriber assigned IP address
45.30.93.48,

Defendant.

Case No.: 5:21-cv-02487-VKD

**DECLARATION OF SUSAN B. STALZER
IN SUPPORT OF PLAINTIFF'S *EX-
PARTE* APPLICATION FOR LEAVE TO
SERVE A THIRD-PARTY SUBPOENA
PRIOR TO A RULE 26(f) CONFERENCE**

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**DECLARATION OF SUSAN B. STALZER IN SUPPORT OF PLAINTIFF'S
MOTION FOR LEAVE TO SERVE A THIRD PARTY SUBPOENA PRIOR TO A
RULE 26(f) CONFERENCE**

I, Susan B. Stalzer, do hereby state and declare as follows:

1. My name is Susan B. Stalzer. I am over the age of 18 and am otherwise competent to make this declaration.

2. This declaration is based on my personal knowledge and, if called upon to do so, I will testify that the facts stated herein are true and accurate.

3. I work for Strike 3 Holdings, LLC ("Strike 3") and review the content of their motion pictures.

4. I hold a Bachelor's degree and Master's degree in English from Oakland University.

5. I have a long history of working in the fine arts, with an emphasis on writing, including having served as an adjunct professor of composition and literature.

6. I am familiar with Strike 3's plight with online piracy and its determination to protect its copyrights.

7. I was tasked by Strike 3 with verifying that each infringing file identified as a motion picture owned by Strike 3 on torrent websites was in fact, either identical, strikingly similar or substantially similar to a motion picture in which Strike 3 owns a copyright.

8. Strike 3 provided me with digital media files to compare with Strike 3's copyrighted works.

9. Based on the Declaration of David Williamson, I understand that Strike 3 obtained each digital media file using the VYN Scan's Torrent Collector and Downloader components.

10. I viewed each of the digital media files side-by-side with Strike 3's motion pictures, as published on the *Blacked*, *Blacked Raw*, *Tushy*, *Tushy Raw*, and/or *Vixen* websites and enumerated on Exhibit A by their United States Copyright Office identification numbers.

11. Each digital media file is a copy of one of Strike 3's motion pictures that is identical, strikingly similar, or substantially similar to the original work identified by their United States Copyright Office identification numbers on Exhibit A to the Complaint.

12. Additionally, I used American Registry for Internet Numbers ("ARIN") to confirm that the ISP AT&T U-verse did own Defendant's IP address at the time of the infringements, and hence has the relevant information to identify Doe Defendant. A true and correct copy of a screenshot of the ARIN database containing Defendant's IP address is attached as Exhibit "1."

DECLARATION

PURSUANT TO 28 U.S.C. § 1746, I hereby declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

Executed on this 20 day of April, 2021.

SUSAN B. STALZER

By: 

EXHIBIT 1

Source Registry

ARIN

Kind	Org
Full Name	AT&T Corp.
Handle	AC-3280
Address	16331 NE 72nd Way Attn: IP Management Redmond WA 98052 United States
Roles	Registrant
Registration	Mon, 05 Mar 2018 15:55:53 GMT (Mon Mar 05 2018 local time)
Last Changed	Tue, 11 Feb 2020 19:05:00 GMT (Tue Feb 11 2020 local time)

EXHIBIT D

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Attorney for Plaintiff
Strike 3 Holdings, LLC

UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA

STRIKE 3 HOLDINGS, LLC,

Plaintiff,

vs.

JOHN DOE subscriber assigned IP address
45.30.93.48,

Defendant.

Case No.: 5:21-cv-02487-VKD

**DECLARATION OF EMILIE
KENNEDY IN SUPPORT OF
PLAINTIFF'S *EX-PARTE*
APPLICATION FOR LEAVE TO
SERVE A THIRD-PARTY SUBPOENA
PRIOR TO A RULES 26(f)
CONFERENCE**

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**DECLARATION OF EMILIE KENNEDY IN SUPPORT OF PLAINTIFF'S
EX-PARTE APPLICATION FOR LEAVE TO SERVE A THIRD-PARTY SUBPOENA
PRIOR TO A RULE 26(F) CONFERENCE**

I, Emilie Kennedy, do hereby state and declare as follows:

1. My name is Emilie Kennedy. I am over the age of 18 and am otherwise competent to make this declaration.

2. This declaration is based on my personal knowledge and, if called upon to do so, I will testify that the facts stated herein are true and accurate.

3. I work for Plaintiff, Strike 3 Holdings, LLC ("Strike 3") as its in-house General Counsel.

4. After Strike 3 received infringement data from VXN Scan identifying IP address 45.30.93.48 as infringing its works, the IP address was automatically inputted into Maxmind's Geolocation Database at <https://www.maxmind.com/en/geoip-demo> (the "Maxmind Database"), on March 25, 2021 at 14:11:12 UTC.

5. Based on this search of the Maxmind Database, Maxmind determined that the IP address traced to a location in San Jose, California, which is within this Court's jurisdiction.

6. Prior to filing its Complaint, Strike 3 again inputted IP address 45.30.93.48 into the Maxmind Database and confirmed that IP address 45.30.93.48 continued to trace to this District.

7. Finally, before filing this declaration, Strike 3 inputted IP address 45.30.93.48 again into the Maxmind Database and confirmed that it traces to San Jose, California. *See* Exhibit 1.

8. Strike 3 has no interest in filing complaints in matters in which the offending IP address cannot be reliably geolocated to within a District Court's jurisdiction, and Strike 3 files separate cases across the various Federal District Courts of California as well as across the country.

DECLARATION

PURSUANT TO 28 U.S.C. § 1746, I hereby declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

Executed on this 22nd day of April, 2021.


EMILIE KENNEDY

EXHIBIT 1

GeoIP2 Databases Demo

Show Sidebar >

IP Addresses

45.30.93.48

Enter up to 25 IP addresses separated by spaces or commas. You can also [test your own IP address](#).

Submit

GeoIP2 City Results

IP Address	Country Code	Location	Network	Postal Code	Approximate Coordinates*	Accuracy Radius (km)	ISP	Organization	Domain	Metro Code
45.30.93.48	US	San Jose, California, United States, North America	45.30.93.0/24	95134	37.4073, -121.939	5	AT&T U-verse	AT&T U-verse	sbcglobal.net	807

Is this data incorrect? Please submit correction requests [here](#). You may also be interested in reading our FAQ: [How accurate is GeoIP2?](#)

This demo contains data found in the following [GeoIP2 databases](#):

- [GeoIP2 Country database](#)
- [GeoIP2 City database](#)

